



ARC-1209-B

**12.1" Intel® Celeron® SoC Processors J1900
Fanless Rugged PCAP Touch Panel PC with IET
Expansion**

- > Onboard Intel® Celeron® SoC Processors J1900 BGA processor
- > Full Flat Front Panel with Projected Capacitive Touch Supports Multi Touch
- > One 204-pin DDR3L SODIMM Socket Supports Up to 8GB DDR3L 1333 SDRAM
- > 4 USB, 2 COM
- > Dual Intel I211AT Gigabit LAN
- > Wide Voltage +12V ~ +26V Input, ErP Power
- > Available Expansion for Audio, USB, COM, HDMI, PCIe, GPIO, CAN Bus
- > IP65 Compliant Front Panel, IP41 Rear Box
- > With Panel Mount kits included
- > TPM 1.2 Function (Optional)

+ Spec

System Information	
Processor	Intel® Celeron® J1900 4-Core 2.0GHz processor
System Memory	1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB
I/O Chipset	EC ITE IT8528E
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec./1sec.step
H/W Status Monitor	Monitoring CPU & System Temperature and Voltage
SBC	ARC-BYT
Specification	
Dimension	292.86 x 225.4 x 51.5 mm
Expansion	
Expansion	1 x Mini PCIe Support mSATA 1 x 80-pin IET interface
Storage	
Storage	1 x 2.5" Drive Bay (7mm HDD Restricted)
Panel	
LCD Size	12.1", 4:3
Display Type	XGA
Resolution	1024x768
Pixel pitch	0.240mm(H) x 0.240mm(V)
Luminance	600 cd/m²
Contrast ratio	1000
Viewing angle	89 (U), 89 (D), 89 (L), 89 (R)
Response time	11 ms
Backlight	LED
Touch Type	Projective Capacitive Multi-Touch up to 10 points
Touch Light Transmission	89 %
Touch Controller	USB touch (EETI)
I/O	
USB Port	1 x USB 3.0 3 x USB 2.0
COM Port	1 x RS-232/422/485 1 x RS-232
SATA	1 x SATA II
Other	3 x Knockouts for Antenna Mounting
Display	
Graphic Chipset	Intel® Valleyview SoC integrated Graphics Supports optional dual display
Spec. & Resolution	HDMI: Max. resolution 1920x1200 @ 60Hz (optional by IET module)
Audio	
Audio Codec	Realtek ALC888S
Speaker Output	2 x 2W
Certifications	
Certification Information	CE FCC Class B
Ethernet	
LAN Chipset	2 x Intel® I211AT
Ethernet Interface	10/100/1000 Base-Tx GbE compatible



LAN Port	2 x RJ-45
Power Requirement	
DC Input	+12V ~ +26V
DC Input Connector	Lockable DC Jack
Adapter	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter
Mechanical & Environmental	
Operating Temperature	-10°C ~ 50°C (-14°F ~ 122°F)
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Weight	2.5 Kgs
Vibration Test	With SSD/mSATA : 3Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis
Shock Test	Operating with SSD/CFast/mSATA : MIL-STD-810G, Method 516.6, Procedure I, functional shock=20G
IP Rating	Front IP65 Rear IP41
Mounting Kit	Wall / Stand / VESA 75mm x 75mm, 100mm x 100mm Panel Mount with mounting kits
Power Mode	AT/ATX (ATX is default setting)
System Fan	Fanless
Construction - Front	Die Casting with Cover lens
Construction - Rear	Black Die Casting
Software Support	
OS Information	Win 7/ 8.1 / 10 / Linux
Ordering Information	
Ordering Information	ARC-1209-190-B3-1R 12.1" 1024x768 Industrial Touch Panel PC, ErP Design (D1 stepping CPU) Intel Celeron SoC J1900 2.0GHz CPU/2GLAN/2COM/4USB/SPK/12~26V input/12V Adapter Optional IET Module list: ACC-ARC-USB-1R 4 x USB 3.0 Kit for ARC Series ACC-ARC-AUDIO-1R HDMI + 5.1 CH Audio Kit for ARC Series ACC-ARC-MPCIE-1R HDMI + MPCIE w/SIM Kit for ARC Series ACC-ARC-COM-1R 2 x Isolated RS-232 Kit for ARC Series ACC-ARC-COM-2R 3 x RS-232 Kit for ARC Series ACC-ARC-COM-3R 2 x RS-232 + USB Kit for ARC Series ACC-ARC-COM-4R 2 x RS-232 + LAN Kit for ARC Series ACC-ARC-GPIO-1R 12-bit GPIO + 2-pin CAN Bus Kit for ARC Series ACC-ARC-OBDI-1R OBDII - CAN Bus Kit for ARC Series (OBDII/EOBD for Small Vehicle) ACC-ARC-OBDI-2R OBDII - CAN Bus Kit for ARC Series (J1939J1708 for Large Vehicle) ACC-ARC-OBDI-3R OBDII - CAN Bus Kit for ARC Series (ISO15765-4 for Special Large Vehicle)